

USACE MILCON Transformation

Centers of Standardization Program Manager Louisville District





MT – Goals and Objectives

- Deliver facilities @ 15% less cost than routine MCA process
- > 30% cradle-to-grave schedule reduction with construction completed in 15-24 months
- Facilities with 25 year re-purpose/reuse cycle and a 50 year building life
- > Achieve Army sustainability standards
 - ➤ LEED Silver
 - Epact 2005 Energy Reduction
- Continue to meet Army/DoD Small Business goals



MT – USACE 3-Part Strategy

- > Expand Standardization...
- > Build Better, Faster, Cheaper...
- Use Innovative/aggressive acquisition strategy and contracting mechanisms





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Expand Standardization...

- > Standardization of Facilities
- > Standardization of Processes (Across USACE)

Build Better, Faster, Cheaper...

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Expand Standardization...

- Standardization of Facilities
- Standardization of Processes (Across USACE)

Build Better, Faster, Cheaper...

- ➤ <u>Better:</u>. Incorporate interior space flexibility, emphasize quality in what's seen and meet code in what's not seen.
- > Faster: 30% project execution time savings
- ➤ <u>Cheaper:</u> Build the most possible within funds available (recognize 15% cost savings already taken off the top)

Use Innovative/aggressive acquisition strategy and contracting mechanisms





MT - District Responsibilities

Geographic District (G-D)

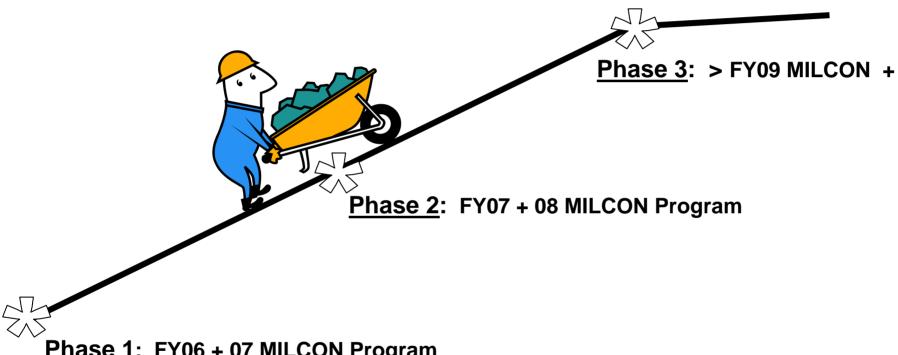
- PM for the project and the USACE interface w/ installation
- Leads the planning charrette efforts to develop 1391s
- Project site development design and construction contract
- Building-site design integration and construction contract oversight
- Facility and site code compliance reviews

Centers of Standardization (COS)

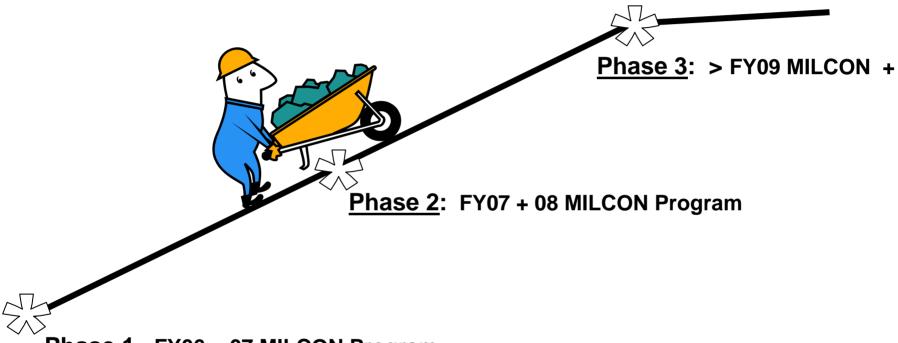
- Design Center: develop and maintain standard facility designs/criteria
- Enforce the Army standards at projects design charrettes
- Award regional IDIQ design/construction task order contracts for district execution
- Technical resource during project construction activities
- Capture lessons-learned and revise prototype models
- Use BIM, require BIM





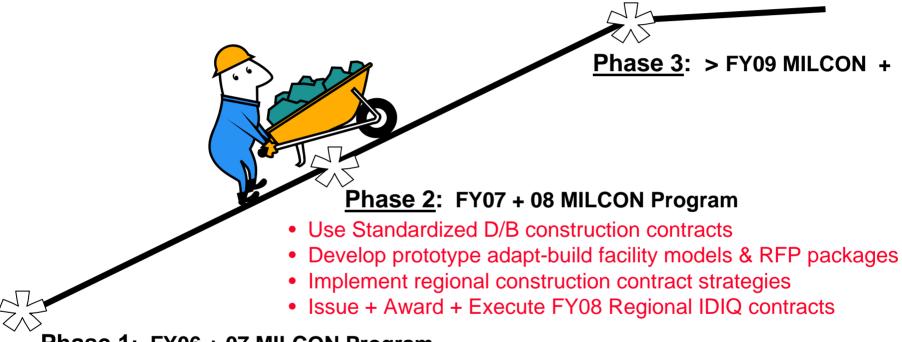






- Invite Industry partner's feedback
- Develop/test Generic RFP Template Facility Functional Requirements
- Stand-up facility Centers of Standardization (COS)

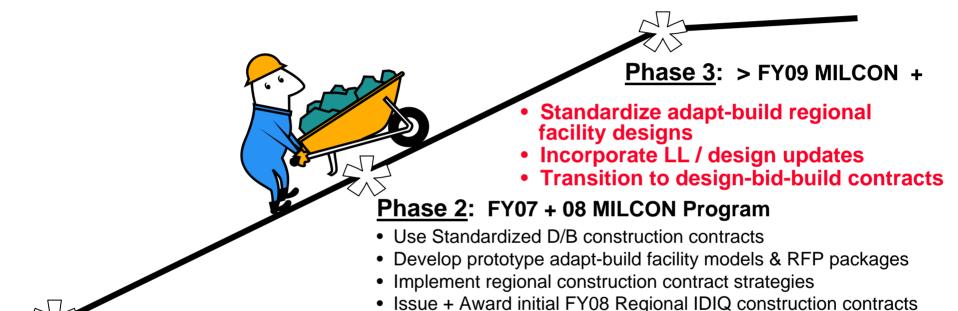




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COS – (8) Locations / (41) Product-Lines

Huntsville Center (15)

- Physical Fitness
- Outdoor Sports Facility
- Child Development (2)
- Youth Activity Centers
- Consolidated Fire, Safety and Security Facility
- Fire Station
- Army Community Service Center
- Bowling Center RFP
- Hazard Material Storage
- Range and Training Lands
 - Close Combat Tactical Trainer
 - Mil. Ops. Urban Terrain Facility
 - Training Ranges
 - Battle Cmd Training Ctr.
 - Training Support Ctr.
- Medical Facilities

Louisville District/LRD (2)

- Army Reserve Centers
- Operational Readiness Training Complex

Norfolk District/NAD (7)

- General Instructional Facility
- Classroom 21
- Enlisted personnel Dining Facility
- Mil. Entrance Processing Stations
- Family Housing RFP
- Information Systems Facility
- Criminal Investigation Facility

Omaha District/NWD (2)

- Religious Facilities
- Access Control Points

Mobile District/SAD (2)

- Aviation Vertical Construction
- 4 Star HQ Facility (Design District)

Savannah District/SAD (6)

- Company Operations Facility
- Tactical Equipment Maintenance
- Brigade Operations Complex
- Brigade/ Battalion HQ: Admin
- Cmd./Control: UEy (2-star) and Corps (UEx 3-star) HQ: Admin/Operations
- Deployment Facility

Honolulu District/POD (2)

- Unaccompanied Officers Quarters
- Transient Officers Quarters

Ft. Worth District/SWD (5)

- Unaccompanied Enlisted Personnel Housing
- Basic Combat Training Complex/One Station Unit Trainee
- Advanced individual Training Complex
- General Purpose Warehouse
- Central Issue Warehouse





COS-BIM Responsibilities

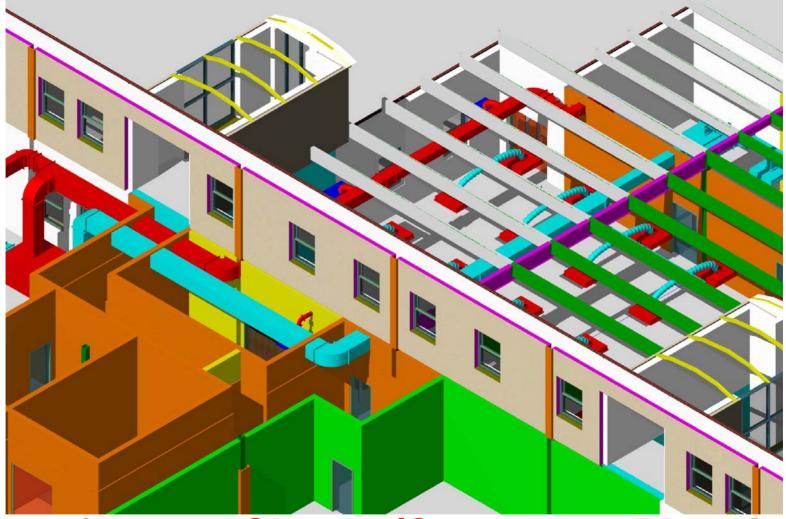
Beginning FY08: Centers have been requested by **OACSIM** to take advantage of Building Information Modeling (BIM) tools for planning, design, construction, and lifecycle building management.

- ➤ In-house staffs are training to execute using the software.
- Industry partners will be asked to do the same...



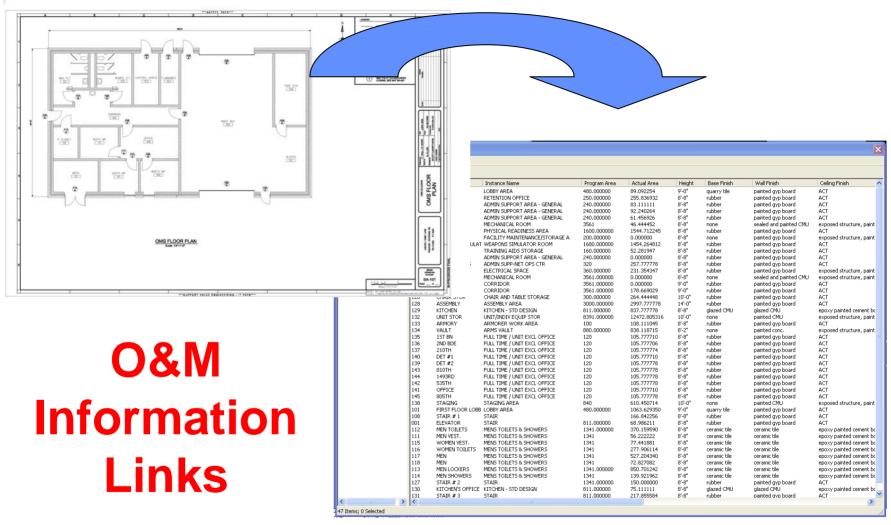
Presentation Renderings and Construction Drawings





Interference Checks/Contractor Planning Tool/Subcontractor Management



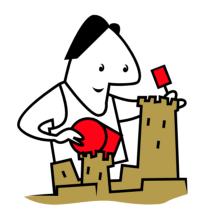


Design information, specifications, catalog cuts, quantities, pictures, maintenance schedules etc.





COS Execution



"Impacting the future..."



C O S – Impact for the USACE Workforce

- There will be less in-house facility design for the Army program in geographic districts
- Centers of Standardization will be the design centers for the Army standard product-lines who are "Design Police" and protector of the Army Facility Standards
- ➤ There will be some migration of our technical expertise from the "board" to the "field" for execution of the Army program during the "adapt-build" phase
- Workforce will be learning new skill sets as execution processes change



COS – Impact for the Construction Community

- Less up-front project specific design effort
- Regional task order award packages to IDIQ D/B contractors based upon a partially developed standard as part of "adaptbuild" process
- Continual drive to keep up with the state-of-the-art construction materials and methods
- Design/construct fewer facility types, but more focus on the few
- Deviations from facility standards will require ACSIM approval
- Long-term contract relationships/contracts (3-5 yrs.)



Coming Opportunities for Industry Partners

> At Geographic Districts:

- Project Site Design/construction
- Full range of consultant activities related to site development
- ➤ Full range of activities for projects other than MCA, BRAC 05, and even MCA projects other than the 42 assigned facility product-lines

At Centers of Standardization

- Assist the COS develop/update product-line facility designs
- Product-line Design/Build contractor for an IDIQ regional task order contract
- Project Design-Bid-Build contractor





In Summary....

- The Army is transforming and undergoing the largest building program in its history
- > Need "leap ahead" solutions rather than "iterative" innovations and investment strategies
- MILCON Transformation processes provide facilities without sacrificing quality, sustainability or adaptability
- > Centers of Standardization allow better leverage of industry "best practices" in a uniform way



Some Useful Links

- MILCON Transformation:
 http://www.hq.usace.army.mil/cemp/milcontrans/milcontransformation.htm
- MILCON Transformation D/B RFP: ftp://ftp.usace.army.mil/pub/hqusace/MILCON%20 Transformation/



Comments Questions!??



MT – What's in '07...

COS Stand-up Activities:

- Continue to coordinate efforts through the COS Management Board activities
- Define operating SOP's between COS's and with geographic districts
- Complete the Program Management Plan

Project Execution Activities:

- Develop facility standards and prototypical models using BIM software, interface with HQDA proponents
- Put into place the regional construction contract acquisition strategy
- Develop product line D/B-RFP contracts for FY08-FY11 based on FY07 template RFP package
- ➤ Issue regional 2-phase procurement D/B-RFP packages for FY 08 construction program
- Perform source selection evaluations and award regional contracts based on FY 08 project specific task orders

"COS" Training for IMCOM, Garrisons, USACE MSCs & Districts (by HQ USACE E&C):

- Proof of concept examples and MT processes/concepts
- Provide understanding of MT process and practical application of concepts using an actual FY 07 project/facility type.

"Culture Change - USACE, Installations, Industry"

